

## PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Date of mailing (day/month/year)  
02 March 2000 (02.03.00)

To:  
Assistant Commissioner for Patents  
United States Patent and Trademark  
Office  
Box PCT  
Washington, D.C.20231  
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

International application No.  
PCT/SE99/01084

Applicant's or agent's file reference  
Case 5116

International filing date (day/month/year)  
16 June 1999 (16.06.99)

Priority date (day/month/year)  
22 June 1998 (22.06.98)

## Applicant

NASLI-BAKIR, Benyahia et al

## 1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

17 January 2000 (17.01.00)

in a notice effecting later election filed with the International Bureau on:

2. The election  was was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

## Authorized officer

Claudio Borton

Telephone No.: (41-22) 338.83.38

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>Case 5116</b>	<b>FOR FURTHER ACTION</b> <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/SE 99/ 01084</b>	International filing date <i>(day/month/year)</i> <b>16/06/1999</b>	(Earliest) Priority Date <i>(day/month/year)</i> <b>22/06/1998</b>
Applicant <b>AKZO NOBEL N.V. et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
  - contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
- 2.  **Certain claims were found unsearchable** (See Box I).
- 3.  **Unity of invention is lacking** (see Box II).
- 4. With regard to the **title**,
  - the text is approved as submitted by the applicant.
  - the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. ---

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/SE 99/01084A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 B05D1/34 C09J5/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 C09J B05D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>o</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 03 988 A (BASF AG) 7 August 1997 (1997-08-07)	1,8-13
Y	page 2, line 55-63 page 4, line 22,23 claims --- EP 0 131 883 A (MITSUI POLYCHEMICALS LTD) 23 January 1985 (1985-01-23) page 2, line 35 -page 3, line 13 figures claims --- -/-	1-7, 14, 15 1,3-7, 14,15

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

14 October 1999

Date of mailing of the international search report

28/10/1999

Name and mailing address of the ISA

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NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Oudot, R

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/SE 99/01084

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE WPI Section Ch, Week 198008 Derwent Publications Ltd., London, GB; Class A21, AN 1980-14466C XP002118864 & SE 7 800 311 A (CASCO AB), 17 September 1979 (1979-09-17) abstract ---	1,2
A	EP 0 207 024 A (CASCO NOBEL AB) 30 December 1986 (1986-12-30) claims -----	1,3,7,15

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SE 99/01084

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 19603988	A	07-08-1997		CZ 9801394 A		16-09-1998
				WO 9729161 A		14-08-1997
				EP 0879270 A		25-11-1998
				HR 970066 A		30-04-1998
				PL 328125 A		18-01-1999
				SK 35398 A		04-11-1998
EP 0131883	A	23-01-1985		JP 1471510 C		14-12-1988
				JP 60034775 A		22-02-1985
				JP 63016989 B		12-04-1988
				CA 1231601 A		19-01-1988
SE 7800311	A	27-07-1979	DK	2779 A		12-07-1979
EP 0207024	A	30-12-1986		SE 453668 B		22-02-1988
				AT 73163 T		15-03-1992
				DE 3684043 A		09-04-1992
				DK 273586 A, B,		18-12-1986
				FI 862536 A, B,		18-12-1986
				JP 1803421 C		26-11-1993
				JP 5002715 B		13-01-1993
				JP 61291671 A		22-12-1986
				NO 300425 B		26-05-1997
				SE 8502993 A		18-12-1986

REPLACED BY  
ART 34 AND 72

PATENT COOPERATION TREATY

REC'D 18 SEP 2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

15

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Case 5116	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/SE99/01084	International filing date (day/month/year) 16/06/1999	Priority date (day/month/year) 22/06/1998

International Patent Classification (IPC) or national classification and IPC  
B05D1/34

Applicant

AKZO NOBEL N.V. et al.

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:

- I  Basis of the report
- II  Priority
- III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV  Lack of unity of invention
- V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI  Certain documents cited
- VII  Certain defects in the international application
- VIII  Certain observations on the international application

Date of submission of the demand 17/01/2000	Date of completion of this report 14.09.00
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  Schweissguth, M  Telephone No. +49 89 2399 2069



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SE99/01084

## I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

### Description, pages:

1-7 as originally filed

### Claims, No.:

1-15 as received on 24/06/2000 with letter of 15/06/2000

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2. The amendments have resulted in the cancellation of:

the description, pages:  
 the claims, Nos.:  
 the drawings, sheets:

3.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N) Yes: Claims 1-15  
No: Claims

Inventive step (IS) Yes: Claims 1-15  
No: Claims

Industrial applicability (IA) Yes: Claims 1-15  
No: Claims

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

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International application No. PCT/SE99/01084

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**2. Citations and explanations**

**see separate sheet**

**VII. Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

**see separate sheet**

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It is referred to the following prior art documents:

D1: DE 196 03 988 A1 and

D2: EP 0 207 024 A2.

D1 is considered to represent the closest prior art.

**Art. 33(2) PCT:**

Closest prior art D1 does not show a method of application of resin and hardener, wherein the hardener comprises a filler in an amount of less than 20% by weight. In contrast, it is disclosed an amount of 20% to 40% (see for example abstract and page 1, line 58).

Prior art D2 gives no information about a hardener composition comprising a filler of less than 20% by weight and a volatile acid.

Accordingly, the method of claim 1 is novel over the prior art.

**Art. 33(3) PCT:**

Separate application of the components of a gluing system onto a substrate is known in the art, and places certain restrictions on the characteristics of the components used. Additionally, application of the components of a gluing system is preferred over the application of a mixture of said components.

Accordingly, present claim 1 underlies the technical problem of providing a method of separate application of an amino gluing system by which the desired assembly time and joints with higher strength can be obtained.

In this respect, it has been found, that a high amount of filler in the hardener component inhibits the achievement of an adequate blending of the applied components on the substrate.

According to the present invention is has thus been found a method of applying a gluing system, wherein the hardener comprises a filler in an amount of less than 20% by weight.

CLAIMS

1. A method of separate application of resin and hardener components of an amino resin gluing system onto a substrate, characterized in that the hardener comprises a volatile acid, and optionally a filler in an amount of less than 20% by weight, 5 wherein the components of the gluing system are applied in the form of strands or by means of spraying, or any combination thereof, in optional order of application.
2. A method according to claim 1, characterized in that the resin component is applied in the form of strands, whereafter the hardener component is applied by means of spraying.
- 10 3. A method according to claim 1, characterized in that the components of the gluing system are separately applied, in the form of strands, in optional order, onto the substrate.
4. A method according to claim 3, characterized in that the later applied strands of one component substantially overlap the corresponding previously applied 15 strands of the other component(s).
5. A method according to claim 4, characterized in that the hardener component is applied in the form of strands on top of the resin component applied in the form of strands.
6. A method according to claim 3, characterized in that the later applied 20 strands of one component do not overlap the corresponding previously applied strands of the other component(s).
7. A method according to claim 3, characterized in that the later applied strands of one component do not contact the corresponding previously applied strands of the other component(s).
- 25 8. A method according to claim 1, characterized in that the hardener comprises volatile acid in an amount of 10-30 % by weight.
9. A method according to claim 1, characterized in that the weight ratio of hardener to resin is 1:3,5-1:2.
10. A method according to claim 1, characterized in that the resin 30 component is selected from the group of melamine-urea-formaldehyde, urea-formaldehyde, or melamine-formaldehyde resins.
11. Hardener composition for use in the method of any of the claims 1-10, characterized in that it comprises a volatile acid and a filler in an amount of 1-20 % by weight.

12. Hardener composition according to claim 11, characterized in that it comprises volatile acid in an amount of 10-30 % by weight.

13. Hardener composition according to claim 11 or 12, characterized in that the volatile acid is formic acid, acetic acid, or pyrolic acid.

5 14. A device for carrying out the method according to claims 4 or 5, comprising a unit of at least two hollow members, at least one member for each component, provided with a number of orifices in each member designed to apply the respective component onto a substrate below the hollow members to form strands, the hollow members being positioned above the plane of application, wherein each of the orifices of one hollow  
10 member are aligned in the machine direction with the corresponding orifices of the other member(s).

15. A device for carrying out the method according to claim 6 or 7, comprising a unit of at least two hollow members, at least one member for each component, provided with a number of orifices in each member designed to apply the respective component  
15 onto a substrate below the hollow members to form strands, the hollow members being positioned above the plane of application, wherein each of the orifices of one hollow member are parallel displaced in the machine direction in relation to the corresponding orifices of the other hollow member(s).

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**CORRECTED VERSION**

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
29 December 1999 (29.12.1999)

PCT

(10) International Publication Number  
**WO 99/67028 A1**

(51) International Patent Classification<sup>6</sup>:  
C09J 5/04

B05D 1/34,

(74) Agent: NYANDER, Johan; Eka Chemicals AB, Patent  
Dept., P.O. Box 11556, S-100 61 Stockholm (SE).

(21) International Application Number: PCT/SE99/01084

(81) Designated States (national): AL, AM, AT, AU, AZ, BA,  
BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES,  
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,  
MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN,  
YU, ZA, ZW.

(22) International Filing Date: 16 June 1999 (16.06.1999)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
9802223-9 22 June 1998 (22.06.1998) SE  
9802222-1 22 June 1998 (22.06.1998) SE  
9802224-7 22 June 1998 (22.06.1998) SE  
60/091,440 1 July 1998 (01.07.1998) US  
60/091,438 1 July 1998 (01.07.1998) US  
60/091,442 1 July 1998 (01.07.1998) US  
9803549-6 16 October 1998 (16.10.1998) SE  
9803550-4 16 October 1998 (16.10.1998) SE  
9803551-2 16 October 1998 (16.10.1998) SE

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT,  
BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,  
NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— With international search report.

(48) Date of publication of this corrected version:

22 March 2001

(15) Information about Correction:

see PCT Gazette No. 12/2001 of 22 March 2001, Section  
II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

RECEIVED  
IPLR 18 2001  
TC 1700 17/01 RUOM

WO 99/67028 A1

(54) Title: METHOD OF APPLICATION

(57) Abstract: A method of separate application of resin and hardener components of an amino resin gluing system onto a substrate, characterized in that the hardener comprises a volatile acid, and optionally a filler in an amount of less than 20 % by weight, wherein the components of the gluing system are applied in the form of strands or by means of spraying, or any combination thereof, in optional order of application. The invention also relates to a hardener composition for use in the method and to a device suitable for carrying out the method.

**FOR THE PURPOSES OF INFORMATION ONLY**

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
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DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>B05D 1/34, C09J 5/04</b>		A1	(11) International Publication Number: <b>WO 99/67028</b> (43) International Publication Date: 29 December 1999 (29.12.99)																											
(21) International Application Number: PCT/SE99/01084		S-186 42 Vallentuna (SE). JANACKOVIC, Anna [SE/SE]; Älta Idrottsväg 10, S-138 33 Älta (SE).																												
(22) International Filing Date: 16 June 1999 (16.06.99)		(74) Agent: NYANDER, Johan; Eka Chemicals AB, Patent Dept., P.O. Box 11556, S-100 61 Stockholm (SE).																												
<b>(30) Priority Data:</b> <table> <tr> <td>9802223-9</td> <td>22 June 1998 (22.06.98)</td> <td>SE</td> </tr> <tr> <td>9802222-1</td> <td>22 June 1998 (22.06.98)</td> <td>SE</td> </tr> <tr> <td>9802224-7</td> <td>22 June 1998 (22.06.98)</td> <td>SE</td> </tr> <tr> <td>60/091,440</td> <td>1 July 1998 (01.07.98)</td> <td>SE</td> </tr> <tr> <td>60/091,438</td> <td>1 July 1998 (01.07.98)</td> <td>US</td> </tr> <tr> <td>60/091,442</td> <td>1 July 1998 (01.07.98)</td> <td>US</td> </tr> <tr> <td>9803549-6</td> <td>16 October 1998 (16.10.98)</td> <td>SE</td> </tr> <tr> <td>9803550-4</td> <td>16 October 1998 (16.10.98)</td> <td>SE</td> </tr> <tr> <td>9803551-2</td> <td>16 October 1998 (16.10.98)</td> <td>SE</td> </tr> </table>		9802223-9	22 June 1998 (22.06.98)	SE	9802222-1	22 June 1998 (22.06.98)	SE	9802224-7	22 June 1998 (22.06.98)	SE	60/091,440	1 July 1998 (01.07.98)	SE	60/091,438	1 July 1998 (01.07.98)	US	60/091,442	1 July 1998 (01.07.98)	US	9803549-6	16 October 1998 (16.10.98)	SE	9803550-4	16 October 1998 (16.10.98)	SE	9803551-2	16 October 1998 (16.10.98)	SE	<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
9802223-9	22 June 1998 (22.06.98)	SE																												
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9803550-4	16 October 1998 (16.10.98)	SE																												
9803551-2	16 October 1998 (16.10.98)	SE																												
<b>(71) Applicant (for all designated States except US):</b> AKZO NOBEL N.V. [NL/NL]; P.O. Box 9300, NL-6800 SB Arnhem (NL).		<b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>																												
<b>(71) Applicant (for SE only):</b> CASCO PRODUCTS AB [SE/SE]; P.O. Box 11538, S-100 61 Stockholm (SE).																														
<b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> NASLI-BAKIR, Benyahia [SE/SE]; Centralvägen 4D, S-132 40 Saltsjö-Boo (SE). LINDBERG, Stefan [SE/SE]; Lagmansvägen 33,																														

(54) Title: METHOD OF APPLICATION

## (57) Abstract

A method of separate application of resin and hardener components of an amino resin gluing system onto a substrate, characterized in that the hardener comprises a volatile acid, and optionally a filler in an amount of less than 20 % by weight, wherein the components of the gluing system are applied in the form of strands or by means of spraying, or any combination thereof, in optional order of application. The invention also relates to a hardener composition for use in the method and to a device suitable for carrying out the method.